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Noel Brady and **Max Forester*** (forester@math.ou.edu), Mathematics Department,
University of Oklahoma, Norman, OK 73019. *High dimensional isoperimetric functions of groups.*

I will discuss recent progress on the problem of determining the coarse structure of the k -dimensional isoperimetric spectrum, for $k > 1$. This spectrum is the set of exponents s for which the function x^s is the k -dimensional Dehn function of a group. Such functions describe the optimal k -dimensional isoperimetric inequality that holds in any model for the group. This is joint work with Noel Brady. (Received September 26, 2006)